

AD-A267 882



FASTC-ID(RS)T-0831-92

# FOREIGN AEROSPACE SCIENCE AND TECHNOLOGY CENTER



MATHEMATICIAN WANG JU

DTIC  
ELECTE  
AUG 12 1993  
S C D



Approved for public release;  
Distribution unlimited.

93-18676



apf

93

8

# **HUMAN TRANSLATION**

FASTC-ID(RS)T-0831-92 30 July 1993

MICROFICHE NR: 93000491

MATHEMATICIAN WANG JU

English pages: 6

Source: Jiefangjun Huaboa, Nr. 3, 1992; pp. 24-25

Country of origin: China

Translated by: Leo Kanner Associates  
F33657-88-D-2188

Requester: FASTC/TABS/Capt Maria Murphy

Approved for public release; Distribution unlimited.

Accession For	
NTIS CRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input checked="" type="checkbox"/>
Unannounced	<input checked="" type="checkbox"/>
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

DTIC QUALITY INSPECTED 3

THIS TRANSLATION IS A RENDITION OF THE ORIGINAL FOREIGN TEXT WITHOUT ANY ANALYTICAL OR EDITORIAL COMMENT STATEMENTS OR THEORIES ADVOCATED OR IMPLIED ARE THOSE OF THE SOURCE AND DO NOT NECESSARILY REFLECT THE POSITION OR OPINION OF THE FOREIGN AEROSPACE SCIENCE AND TECHNOLOGY CENTER.

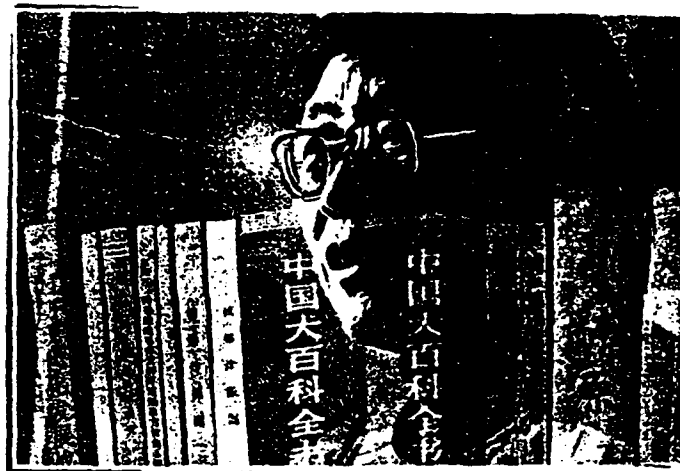
PREPARED BY:

TRANSLATION DIVISION  
FOREIGN AEROSPACE SCIENCE AND  
TECHNOLOGY CENTER  
WPAFB, OHIO

#### GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc. merged into this translation were extracted from the best quality copy available.

MATHEMATICIAN WANG JU



In Order to Do Her Job As Chief Engineer,  
Wang Ju Spends Every Available Minute  
Studying her books



Wang Ju Explaining Questions on  
Accurate Ballistics Calculations  
to Data Computation Personnel



Wang Ju and Her Comrades Study  
Ballistic Data Computation

In the early seventies, exciting news was spread around the world. China had successfully launched an intercontinental ballistic missile! The person responsible for special ballistic designs for this major test was actually a 37 year old female engineer by the name of Wang Ju.

Wang Ju was one of China's first batch of graduates in mathematics. After she graduated from college in 1957, because of her outstanding scholastic record, she donned a military uniform and went to the 5th Institute of the Ministry of Defense. She was assigned to the ballistic overall design laboratory. She was excited about studying the secrets of the leading edge of science. However, there were also hardships. Her head was always filled with numbers and formulas, with complex computations which required several months. However, her enthusiastic revolutionary zeal for her job made her forget the difficulties and the fatigue, and she tirelessly worked in mathematics in national defense scientific research. In ten years, she became an expert in strategic missile ballistics data calculation and design. In almost 20 test launches, the various ballistics she designed and calculated were all accurate and had a hit rate of 100 percent.

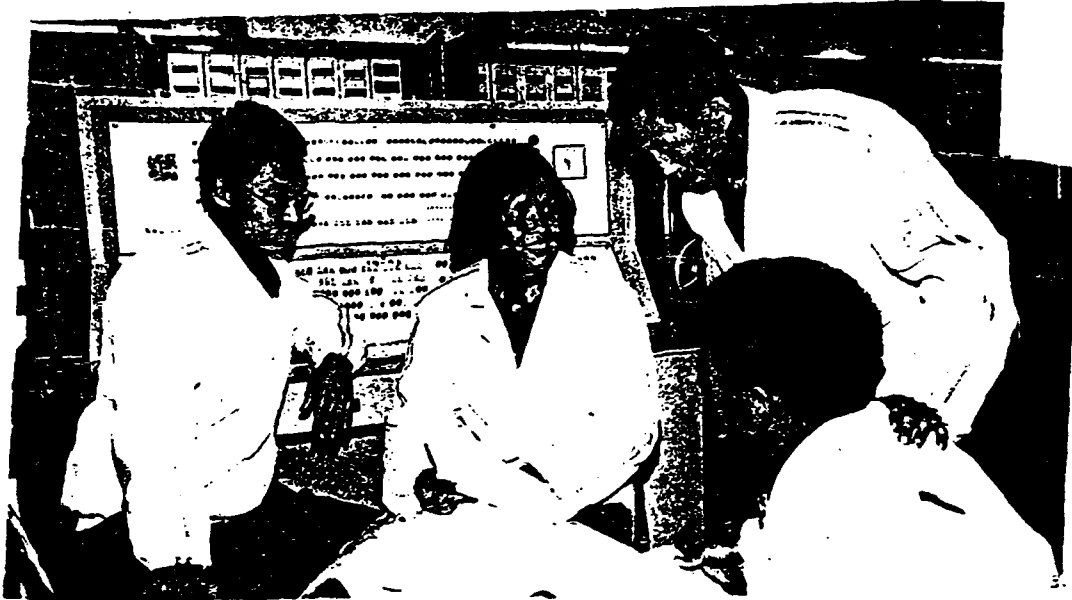
In 1980, she was transferred to a certain institute of the 2nd Artillery to be responsible for practical research in ballistic data methods. Another ten years passed, and has had such achievements as "Disturbed Gravity Limited Element Model Research", "Strategic Missile Thrust Control Parameter Simple Calculation Methods", and "A Certain Model Strategic Rocket Training Launch Data Computation Methods and Result Analysis". She also cooperated with others, completing data computational second stage additional amount calculations and a data calculation self-checking program. Six of these projects have been awarded science and technology prizes by the state and by the military. She has made contributions to military combat readiness constructions and to combat applications. Because of this, the people have given her the title of the mystical engineer who places the brain and eyes into the missiles. The government has conferred the title of "All China March Eighth Red Flag" upon her. The masses have selected her as a delegate to the All China Peoples' Congress. A general has given

FASTC-ID(RS)T0831-92

her a sparkling Second Class Meritorious service Medal.

MACAO GIRL IN THE SATELLITE VILLAGE

BY: Su Kuoshan, photography by Zhang Tongsheng



Chen Lishan and Technicians Studying Missile Flight Data

Chen Lishan grew up in Macao. When she graduated from Fuzhou University in 1978, just like many of her classmates, she wanted to find a good job and also wanted to find a soft job in her home town. Because of her excellent scholastic record, the school wanted her to stay on, but the national defense scientific research testing units also selected her. Faced with this, her first major choice in life, Chen Lishan decided that although it would be nice to stay in her home town, a Communist Party member should go to the most difficult places to be tempered and to mature. In a short time, armed with her determination to spend her life in national defense scientific research, she arrived at Daliangshan, where she became part of the Xichang Satellite Launch Center, which was then under construction and where she was a technical officer at a certain satellite tracking station. In eight short years, Chen Lishan had made difficult progress on the road of science, moving

up from a basic student of computational science to a qualified national defense scientific research testing computer engineer.



Chen Lishan Studying a Satellite Tracking System Proposal

In the Spring of 1986, after she had completed the mission of tracking the launch of one of China's practical broadcast satellites, she returned to Macao with her husband. Her classmates, friends and relatives all wanted her to stay in Macao, and even made some contacts to find jobs there for her and her husband. However, Chen Lishan would not change her mind, and once more dedicated herself to national defense scientific research. At that time, there were people who predicted that she would soon learn to regret her decision.

Chen Lishan had made a decision to dedicate her youth and her life to national defense scientific research, and never to regret it. Later, she put her heart and soul into this work, and she has participated in 13 satellite launches. She has written six satellite tracking programs, four of which have received awards for advancement of science and technology. She has already become a major technological backbone cadre of the satellite tracking station.

Today, this girl from Macao continues to serve in an outstanding manner at the satellite village.

DISTRIBUTION LIST

DISTRIBUTION DIRECT TO RECIPIENT

<u>ORGANIZATION</u>	<u>MICROFICHE</u>
B085 DIA/RTS-2FI	1
C509 BALLOC509 BALLISTIC RES LAB	1
C510 R&T LABS/AVEADCOM	1
C513 ARRADCOM	1
C535 AVRADCOM/TSARCOM	1
C539 TRASANA	1
Q592 FSTC	4
Q619 MSIC REDSTONE	1
Q008 NTIC	1
Q043 AFMIC-IS	1
E051 HQ USAF/INET	1
E404 AEDC/DOF	1
E408 AFWL	1
E410 ASDTC/IN	1
E411 ASD/FTD/TTLA	1
E429 SD/IND	1
P005 DOE/ISA/DDI	1
P050 CIA/OCR/ADD/SD	2
1051 AFTT/LDE	1
P090 NSA/CDB	1
2206 FSL	1

Microfiche Nbr: FTD93C000491  
FTD-ID(RS)T-0831-92